AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

(Currently Amended) A method for forming a porous insulating layer,
 comprising:

a solution-applying step of applying a solution in which ana silicon nitride insulating material is dissolved onto a workpiece;

a solidified layer-forming step of forming a solidified layer by cooling the solution applied onto the workpiece to a temperature less than or equal to the melting point of a solvent contained in the solution;

a drying step of removing the solvent contained in the solidified layer to make the solidified layer porous; and

a firing step of hardening the porous layer obtained by the drying step.; and

an airtight treatment of instantaneously exposing the porous layer to a high

temperature with a flushing device to melt a surface of the porous layer to eliminate the

air permeability of the porous insulating layer.

2. (Previously Presented) The method for forming a porous insulating layer according to Claim 1, wherein, in the solution-applying step, the solution is applied to cover unevenness of the surface of the workpiece, and to flatten the surface of the applied layer.

3.	(Original) The method for forming a porous insulating layer according to
Claim 1, w	herein the drying step is performed under a reduced pressure.
4.	(Original) The method for forming a porous insulating layer according to
Claim 2, wherein the drying step is performed under a reduced pressure.	
5.	(Original) The method for forming a porous insulating layer according to
Claim 1, w	herein the solidified layer-forming step is performed after part of the solvent is
removed from the solution applied onto the workpiece.	
6.	(Cancelled)
7.	(Cancelled)
,.	(Ganosiica)
8.	(Currently Amended) The method for forming a porous insulating layer
according to Claim 1, wherein the application of the solution to the workpiece comprises	
silt_slit_coa	ting.
9.	(Cancelled)
10.	(Cancelled)

11.

(Cancelled)

12. (Cancelled)

13. (Currently Amended) A method for forming a porous insulating layer, comprising:

applying a solution containing <u>a silicon nitride</u>an insulating material onto a substrate;

cooling the solution to a temperature less than or equal to the melting point of a solvent contained in the solution to form a gel layer;

vaporizing the solvent contained in the gel layer to make a solidified layer, porous layer;

hardening the porous layer; and

melting a surface of the porous layer to eliminate the air permeability enclose pores of the surface of the porous layer by instantaneously exposing the porous layer to a high temperature with a flushing device.

- 14. (Previously Presented) The method of claim 13, wherein the step of vaporizing the solvent comprises sublimation of the solvent.
 - 15. (Cancelled)
 - 16. (Cancelled)

- 17. (Previously Presented) The method of claim 13, wherein the porous layer comprises a porosity of 90%.
 - 18. (Cancelled)